VEVOR SP-ZH352510(30A-6)

VEVOR 30-Amp 6-Circuit Manual Generator Transfer Switch Instruction Manual

Model: SP-ZH352510(30A-6)

Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your VEVOR 30-Amp 6-Circuit Manual Generator Transfer Switch. Please read this manual thoroughly before installation and use. Keep this manual for future reference.
The VEVOR Manual Transfer Switch is designed to safely connect a portable generator to your home's electrical system, allowing you to power essential circuits during an outage. It features a 30-Amp capacity, 6 circuits, a NEMA L14-30P power inlet box, double-throw switches, NEMA 3R enclosure, and a mechanical watt meter, compatible with generators up to 7500W.

Safety Information

WARNING: Electrical shock hazard. Installation must be performed by a qualified electrician in accordance with all applicable electrical codes.

- Always disconnect power before servicing the transfer switch or any connected circuits.
- Ensure the generator is properly grounded.
- Never operate the generator indoors or in enclosed spaces.
- Do not exceed the rated amperage or wattage of the transfer switch or individual circuits.
- Verify all connections are secure before applying power.
- The NEMA 3R enclosure provides protection against rain, sleet, snow, and external ice formation.

Product Overview

The VEVOR Manual Transfer Switch allows you to safely switch between utility power and generator power for selected circuits in your home. It includes a main transfer switch panel and an external power inlet box.

Image: VEVOR 30-Amp 6-Circuit Manual Generator Transfer Switch with Power Inlet Box. This image displays the complete transfer switch unit, including the main panel with circuit breakers and switches, the external power inlet box, and the pre-wired cables.

Key Features:

- **Double-Throw Switches:** Prevents back-feeding power to the utility grid.
- **US Standard Mini Circuit Breakers:** Provides overcurrent protection for each circuit.
- **Mechanical Watt Meters:** Monitors generator load for balanced power distribution.
- **NEMA 3R Weatherproof Enclosure:** Suitable for indoor and outdoor installation.
- **Pre-Wired Design:** Simplifies installation with clearly labeled wiring.
- **NEMA L14-30P Power Inlet Box:** Ensures stable and reliable power input from the generator.

Durable Construction

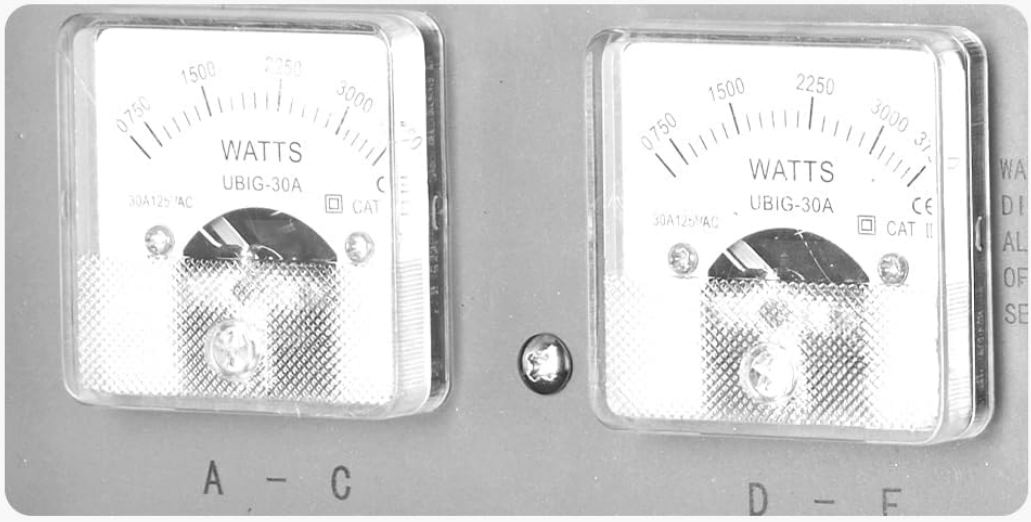
Long-Lasting Performance

Double-throw Switch

Avoid power back feed

US Standard Circuit Breaker

Overcurrent Protection to Safeguard Wires



Mechanical Wattmeter

Reliable & Accurate Monitoring of Generator

Image: Close-up view highlighting the double-throw switches, US standard circuit breakers, and mechanical wattmeters on the VEVOR transfer switch panel. This illustrates the key operational components.

Pre-Wired Design

Simplify your setup with effortless use

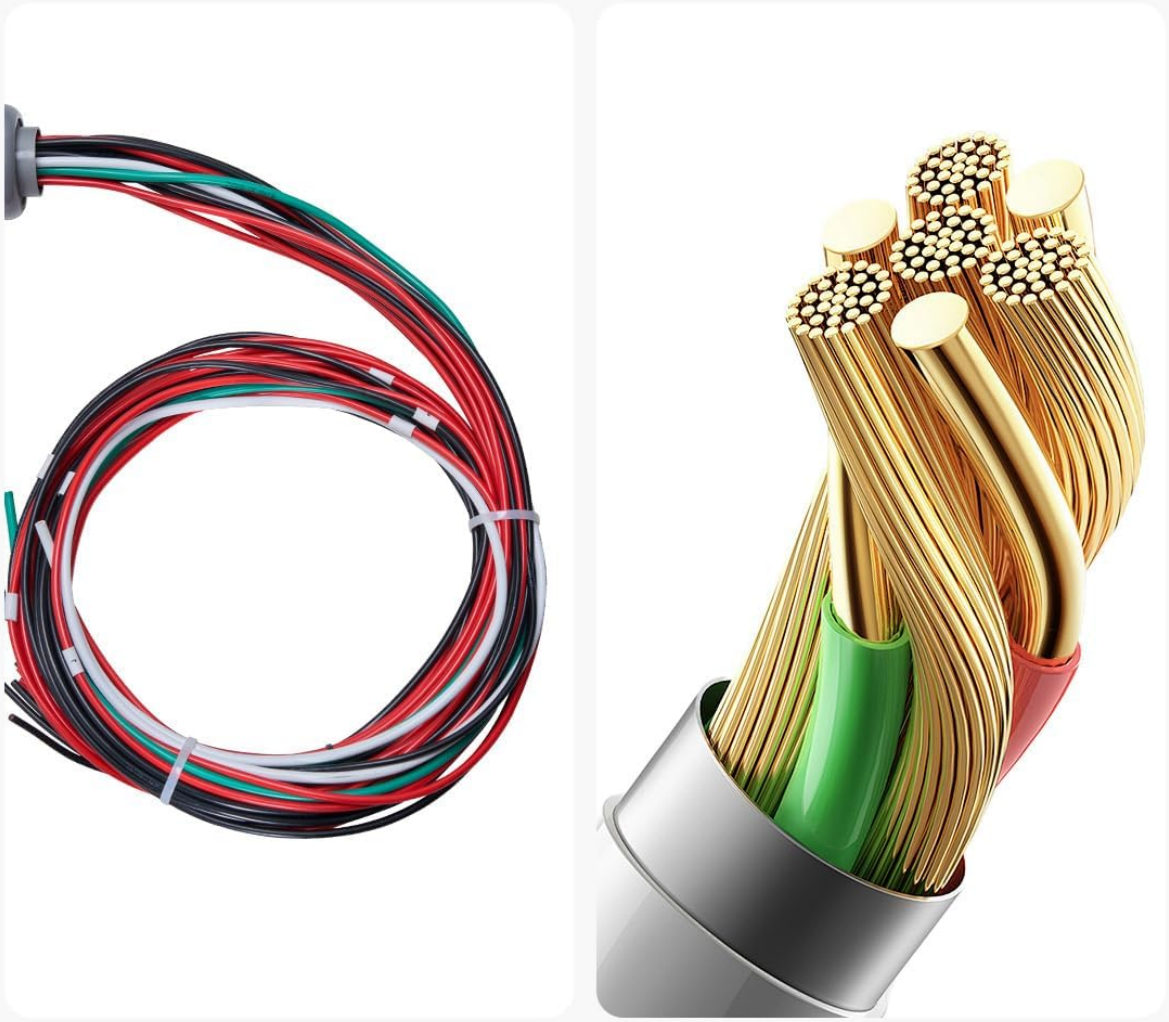


Image: Illustration of the pre-wired design of the VEVOR transfer switch, showing clearly labeled wires for simplified installation.

Image: Detailed view of the VEVOR power inlet box, featuring the NEMA L14-30 plug and a protective lid for secure power input.

Setup and Installation

Installation of this transfer switch requires electrical knowledge and adherence to local and national electrical codes. It is highly recommended that a qualified electrician performs the installation.

Tools and Materials Required (Not Included):

- Standard electrician's tools (screwdrivers, wire strippers, pliers, voltage tester)

- Conduit and fittings (if not using the included PVC conduit)
- Mounting hardware suitable for your installation surface
- Appropriate wiring for connecting the transfer switch to your main electrical panel and the power inlet box.

Installation Steps:

1. **Select Location:** Choose a suitable location for the transfer switch and power inlet box. The transfer switch should be mounted near your main electrical panel. The power inlet box should be mounted outdoors in a location accessible to the generator, away from windows and doors, and protected from direct exhaust fumes. Ensure the NEMA 3R enclosure is appropriate for the chosen outdoor environment.
2. **Mounting:** Securely mount the transfer switch panel and the power inlet box to a sturdy surface using appropriate hardware.
3. **Wiring to Main Panel:**
    - **DANGER: Turn off the main breaker at your electrical panel before proceeding with any wiring. Verify power is off using a voltage tester.**
    - Connect the pre-wired circuits from the transfer switch to the corresponding circuits in your main electrical panel. Follow the wiring diagram provided with the product.
    - Ensure all connections are tight and properly insulated.
4. **Wiring to Power Inlet Box:**
    - Run appropriate gauge wire from the transfer switch to the power inlet box.
    - Connect the wires to the L14-30P receptacle in the power inlet box according to the wiring diagram.
    - Ensure the conduit connections are watertight for outdoor installations.
5. **Grounding:** Ensure the transfer switch and power inlet box are properly grounded according to local electrical codes.
6. **Final Inspection:** Before restoring power, double-check all wiring connections for correctness and security. Ensure no bare wires are exposed.

Image: The VEVOR transfer switch installed on an exterior wall, demonstrating its NEMA 3R weatherproof design in a simulated rainy environment.

Operating Instructions

Follow these steps to safely operate your VEVOR Manual Generator Transfer Switch during a power outage.

To Transfer to Generator Power:

1. **Turn Off Main Breaker:** Locate the main breaker in your home's electrical panel and switch it to the "OFF" position. This isolates your home from the utility grid.
2. **Turn Off Transfer Switch Breakers:** On the VEVOR transfer switch panel, switch all individual circuit breakers to the "OFF" position.
3. **Connect Generator:** Plug your generator's power cord into the NEMA L14-30P power inlet box.
4. **Start Generator:** Start your generator according to its manufacturer's instructions. Allow it to warm up for a few minutes.
5. **Transfer Circuits:** On the VEVOR transfer switch, move the toggle switches for the desired circuits from

"LINE" (utility) to "GEN" (generator) position.

6. **Turn On Transfer Switch Breakers:** Flip the individual circuit breakers on the transfer switch to the "ON" position for the circuits you wish to power. Monitor the mechanical watt meters to ensure the generator is not overloaded.
7. **Monitor Load:** Periodically check the watt meters to ensure the generator is operating within its capacity. Avoid overloading the generator.

To Transfer Back to Utility Power:

1. **Turn Off Transfer Switch Breakers:** On the VEVOR transfer switch panel, switch all individual circuit breakers to the "OFF" position.
2. **Transfer Circuits to Utility:** Move the toggle switches for all circuits from "GEN" to "LINE" position.
3. **Shut Down Generator:** Turn off your generator according to its manufacturer's instructions.
4. **Disconnect Generator:** Unplug the generator power cord from the power inlet box.
5. **Restore Main Breaker:** Turn the main breaker in your home's electrical panel to the "ON" position.
6. **Turn On Transfer Switch Breakers:** Flip the individual circuit breakers on the transfer switch to the "ON" position for the circuits you wish to power.

Image: The VEVOR transfer switch with its front panel open, revealing the internal circuit breakers, toggle switches, and an operation guide label. This shows the user interface for operating the switch.

Maintenance

Regular maintenance ensures the longevity and safe operation of your VEVOR Manual Generator Transfer Switch.

- **Annual Inspection:** Have a qualified electrician inspect the transfer switch and all wiring connections annually.
- **Clean Enclosure:** Periodically clean the exterior of the enclosure to remove dirt, dust, and debris. Use a damp cloth; do not use harsh chemicals or abrasive cleaners.
- **Check Connections:** Ensure all electrical connections remain tight. Loose connections can cause overheating and electrical hazards.
- **Inspect for Damage:** Check for any signs of physical damage, corrosion, or wear on the enclosure, switches, and wiring. Address any issues promptly.

Troubleshooting

This section provides solutions to common issues you might encounter with your transfer switch.

Problem	Possible Cause	Solution
No power to circuits when on generator.	• Generator not running or not producing power. • Generator cord not properly connected. • Transfer switch circuit breakers are "OFF". • Transfer switches are in "LINE" position. • Generator overloaded.	• Check generator fuel, oil, and start procedures. • Ensure generator cord is fully inserted into the inlet box. • Flip transfer switch circuit breakers to "ON". • Move toggle switches to "GEN" position. • Reduce load on generator; turn off some appliances.
Circuit breaker trips frequently.	• Overloaded circuit. • Short circuit in appliance or wiring.	• Reduce the number of appliances on that circuit. • Unplug appliances from the circuit and reset the breaker. If it still trips, consult an electrician.
Watt meter shows no reading or incorrect reading.	• No load on the circuit. • Faulty watt meter.	• Ensure appliances are connected and drawing power. • Contact VEVOR customer support for assistance.

Specifications

Model Number	SP-ZH352510(30A-6)
Current Rating	30A

Number of Circuits	6
Voltage	AC 120/240V
Generator Compatibility	Up to 7500W
Supported Switches	1 x 2-Pole + 4 x Single-Pole
Enclosure Material	Cold-Rolled Steel
Enclosure Rating	NEMA 3R (Weatherproof)
Power Inlet Plug Format	NEMA L14-30
Product Dimensions	14.65 x 9.76 x 4.72 inches (372 x 248 x 120 mm)
Net Weight	18.25 lbs (8.28 kg)

Image: Diagram showing the physical dimensions of the VEVOR transfer switch and a summary of its key specifications, including model number, current, voltage, and weight.

Warranty and Support

For warranty information and technical support, please refer to the official VEVOR website or contact VEVOR customer service directly. Keep your purchase receipt for warranty claims.

VEVOR Contact Information:

- Website: www.vevor.com
- Customer Service: Refer to the contact section on the VEVOR website for phone numbers or email support.